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TITLE : LUBRICANT COMPOSITION

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a semisolid lubricant compsn. which is easily cleaned because of its high compatibility with other lubricants, has a low vapor pressure, and is excellent in lubricity at high temps. in a high vacuum by incorporating tris(2-octyldodecyl)cyclopentane into the same.

SOLUTION: Tris(2-octyldodecyl)cyclopentane (hereinafter abbreviated as TS) is a synthetic hydrocarbon oil having a pour point of -57°C, a vapor pressure at 20°C of 10^{-12} Torr, and lubricating characteristics similar to those of a perfluoroalkyl ether and, exhibiting excellent lubricating characteristics esp. at high temps. in a high vacuum, is suitable for apparatuses, semiconductor devices, etc., used in the outer space. The semisolid lubricant compsn. is pref. prepd. by mixing TS with an additive in an amt. enough to convert TS into a semisolid; for instance, Ts is mixed with 1-30wt.% thickener (e.g. a metal soap) for a lubricating grease to give a grease or is mixed with 1-50wt.% solid lubricant (e.g. molybdenum disulfide) to give a compd.

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